

## PERPENDICULAR WINDOW, DALLING.



C.S.L.S.

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In passing through the village of Dalling lately, I met with a note-worthy Perpendicular window, a sketch of which I inclose to you. The tracery and stanchions particularly attract notice. I am sorry I could not take any dimensions or a plan, but the peculiar form of the tracery is perhaps worth preserving.

J. W. H.

## SIZE OF CAST-IRON BEAMS.

The following is from a useful collection of tables to aid the calculation of water and mill power, drairage, &c. by Mr. Beardmore:—

Table of Safe Load for Cast-Iron Beams, if equally distributed, expressed in Cwts.

For Beams 6 to 18 inches Deep.

Rule.—Multiply the area which a proposed beam has to support, by the weight of the floor or bridge, and the greatest load, due to such area, all in cwts.; find the nearest corresponding number in the table, having the required depth and length, and the proper dimensions of the bottom flange will be found at top of the column. The tables also give the safe weight to be borne by beams of any of the stated dimensions.

Note.—Floors should generally be reckoned to carry 2.5 cwts. per foot superficial including their own weight.

Road Bridges do. 5.0 cwts. do.

Railway Bridges do. 10.0 cwts. do.

but for railway girders of cast iron, beyond 18 feet span, only half the tabular numbers should be used.

Beam Six Inches Deep.						Beam Eight Inches Deep.				
Dimensions of bottom Flange in inches.	4 x 1	5 x 1	6 x 1	8 x 1	9 x 1	4 x 1	5 x 1	6 x 1	8 x 1	9 x 1
Length, feet.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.
5	133	166	200	333	391	177	222	266	444	521
6	111	139	166	277	326	148	185	222	370	435
8	83	104	125	208	244	111	139	166	277	325
10	66	83	100	166	195	89	111	133	222	260
12	55	69	83	138	163	74	92	111	185	217
14	47	59	71	119	140	63	79	95	159	187
16	41	52	62	104	122	55	69	83	138	163
18	37	46	55	92	108	49	62	74	125	144

  

Beam Ten Inches Deep.						Beam Twelve Inches Deep.				
Dimensions of bottom Flange in inches.	5 x 1	8 x 1	9 x 1	10 x 1	10 x 1	6 x 1	8 x 1	9 x 1	10 x 1	11 x 1
Length, feet.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.
6	231	277	463	521	578	333	555	625	694	916
8	173	208	346	391	434	250	416	469	521	688
10	139	166	278	313	347	200	333	375	417	550
12	115	139	230	260	289	166	278	312	347	458
14	99	119	198	223	248	109	238	268	298	393
16	86	104	172	195	217	125	208	234	261	344
18	77	93	154	173	195	111	185	208	232	306
20	69	83	138	156	173	100	166	187	209	275

  

Beam Fourteen Inches Deep.						Beam Sixteen Inches Deep.					
Dimensions of bottom Flange in inches.	8 x 1	9 x 1	10 x 1	11 x 1	12 x 1	8 x 1	9 x 1	10 x 1	11 x 1	12 x 1	12 x 1
Length, feet.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.
8	486	547	607	802	875	555	625	694	916	1000	1000
10	389	438	486	642	700	444	500	555	783	800	800
12	324	365	405	535	584	370	417	463	611	667	667
14	278	313	347	459	501	317	357	397	524	572	572
16	243	274	304	401	437	278	313	347	458	500	500
18	216	244	270	357	389	246	278	309	407	444	444
20	195	219	243	321	350	222	250	278	366	400	400
22	177	199	221	291	318	202	227	250	333	364	364

\* Hydraulic Tables.—Waterlow and Sons, Parliament-street, 1850.

## A NOTE FROM JAMAICA.

The Lunatic Asylum at Kingston is progressing towards its completion. Mr. Harris is the architect. It is being erected under the superintendence of Mr. De Walden, the clerk of works. A market was lately erected in Kingston: it is a strange structure, and was designed by a carpenter, who was paid 10*l.* for his plan and five per cent. for his superintendence. It consists of brick pillars, 18 inches square, carrying a wooden roof. No provision against the weather has been made: it strongly resembles the buildings on estates in which the fuel is stored (structures of the rudest kind). To hide this magnificent conception, a screen wall, pierced with windows fitted with *louvre* blinds (called *jalousies*) has been put up; and so disgusted are many members of the corporation at the whole affair that it is probable an architect will be called in, as soon as the contractor shall have finished his contract, to give it a more respectable character. The parish church of St. Mary's, Port Maria, has at last been commenced: it is to contain 650 sittings, and is of Early English character. It consists of a nave, with north and south aisles, chancel, and robing-room, with tower at north-west angle. The western entrance is through the tower, which, for two stories in height, is square in plan, then takes an octagonal form, and is surmounted by a pinnacle of stone, carrying a plain metal cross and vane. There is a southern entrance; the window in western front is a triplet; the side windows of aisles are coupled lancets; the east window of chancel is a triplet, and the north and south walls of chancel are pierced by single lancets; the nave is separated from the aisles by octagonal pillars carrying moulded arches. There will be no clerestory. The passages of nave, aisles, together with the floor of chancel, will be paved with red and black tiles of Minton's manufacture. The sittings will be all open and free; cedar will be the material used. The pulpit, reading-desk, altar-rail, altar, and lectern will be of mahogany, of characteristic design; the font and altar-piece will be of Caen stone; the roof will be of pitch pine, framed with open timbers, and covered with white pine boarding, on which will be laid red tiles. The whole of the wood-work will be wrought and varnished. There is to be a gallery at the western end for the reception of the organ, and entered from the tower. The building is of the plainest and most simple character, and will not cost more than 3,300*l.*: the material employed will be brick, with stone dressings: the architect is Mr. Blayney Wm. Walsh. The cathedral at Spanish Town is progressing slowly; the roof is on the nave; the funds are wanting for its completion.

## PROPOSED CANAL ACROSS THE ISTHMUS OF DARIEN.

## CAUTION TO CAPITALISTS.

"The grand project of opening a communication between the Atlantic and Pacific Oceans, by means of a canal across the Isthmus of Darien, is again occupying the attention of the public mind both in Europe and America. The Nicaragua treaty is said to have passed the Executive department of the United States' Senate, and, should it be confirmed, there is not the slightest doubt of its meeting with the sanction of the British Government. The cost of this stupendous undertaking is estimated at about 5,000,000*l.* sterling; two-thirds of which sum the British minister at Washington (Sir Henry L. Bulwer) has guaranteed to raise among the London capitalists alone! Alluding to this subject the *New York Herald* says, ' &c. &c.—*Nassau Guardian*, June 18, 1850.

Without in any way pledging myself for the accuracy of the above statement, and leaving all responsibility on that head with the Editors of the *New York Herald* and *Nassau Guardian*, I cannot remain silent where there is even a reasonable probability of further and gigantic speculations being made with much British capital,—that is, much British happiness and independence being risked on the bursting or not bursting of a new South Sea Bubble,—without earnestly calling the attention of those concerned to what is probably their present position in this undertaking; and it is done in the hope that you, Sir, will enter into the matter with as much zeal and good spirit as you have shown throughout the mat-